SHRI KRISHNA ACADEMY

NEET,JEE & BOARD EXAM(10th,+1,+2) COACHING CENTRE SBM SCHOOL CAMPUS, TRICHY MAIN ROAD,NAMAKKAL

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FIRST MID TERM TEST - JUL- 2019

X - SCIENCE

ANSWER KEY

MARKS: 50

Q.NO	SECTION – A	MARKS
I. Answer all the questions below:		15x1=15
1.	c) mass of the object	1
2.	d) both a & c	1
3.	b) 2f	1
4.	c) -0.25m	1
5.	c) Carbondioxide	1
6.	d) 14g	1
7.	d) 7,18	1
8.	a) He	1
9.	b) Stem	1
10.	b) Ethyl alcohol	1
11	b) 33 segments	1
12	b) Viviparous	1
13	d) All the above	1
14	a) SA node	1
15	a) Medulla oblongata	1
II. Ans	SECTION-B swer any Ten questions	10x2=20
16	$F_1 = 5N$ $F_2 = 15$ $F_{net} = F_2 - F_1(Since F_2 > F_1)$ $F_{net} = 15 - 5$	11
Jaje N	Resultant force = 10N 1. The resultant force will be oin the direction of force with greater magnitude. 2. The direction of action of the resultant force will be in the direction of the greater force (15N). 3. The direction will be along 15N.	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
17	i) Negative, Positive	1
The State of the S	17,1000010, 1000010	1

	S. N	ence between Convex lens and Co Convex Lens	Concave Lens		
	1	A convex lens is thicker in the	A concave lens is thinner in	1/	
		middle than at edges.	the middle than at edges.	1/2	
	2	It is a converging lens.	It is a diverging lens.	1/2	
	3	It produces mostly real images.	It produces virtual images.	1/2	
	4	It is used to treat hypermeteropia.	It is used to treat myopia.	1/2	
19	iii) A is	wrong R is correct	1881 in 1881	2	
20	When i	ron is exposed to moist air, it forms a	ayer of brown hydrated ferric	1	
	oxide o	n its surface. This compound is known	as rust and the phenomenon of		
	formation of rust is known as rusting .				
	4 Fe+ 3	$0_2 + x H_2 O \rightarrow 2 Fe_2 O_3 . x H_2 O(rust)$		1	
21	Struct	ure of Oxysomes:	104 163		
	a	1 → F,	dela	1	
	-	Page 1		War.	
		Stalk		Man	
	(111)				
22	:) 1	Lab.	tober.		
22	i) Leec	C SMBCA.	10.58 lab 1. 11	2	
	ii) Den	tal formula = $\left(I_{\frac{2}{1}}, C_{\frac{0}{0}}, PM.\frac{3}{2}, M_{\frac{3}{3}}\right)$	39600	مام د	
	in rabb	oit which written as $\frac{2033}{1023}$		MANAG	
23	Parasite adaptations in leech:				
	❖ Bloo	od is sucked by pharynx.	14914		
	❖ Anterior and posterior ends of the body are provided with suckers by				
	which the animal attaches itself to the body of the host.				
		three jaws inside the mouth, causes a of the host.	painless Y-snaped wound in the	May	
		salivary glands produce hirudin wh	ich does not allow the blood to	Mala.	
		gulate. Thus, a continuous supply of th		1	
		apodia and setae are completely absen		1	
Aids.		od is stored in the crop. It gives nouris			
T	months. Due to this reason there is no elaborate secretion of the digestive				
		es and enzymes	WIND TOOK	- CALLALA	
24	1) Sym			Mala	
		spiration - Leaf		2	
. 1	3) 0sm			۷	
0.7		pressure - Pressure gradient	- shapily be		
25	Cohesion: The force of attraction between molecules of water is called cohesion.			2	
26	Differentiate between Voluntary and involuntary actions:			WKIAZI	
_0	S.N	Voluntary actions	Involuntary actions	1	
	1 3.N	Voluntary actions are initiated by	A reflex action is not under	1	
		our own conscious	the control of our conscious		
			Hypothalamus controls		
	2	Cerebral cortex, cerebellum	Hynofhalamiic confroic		

27	Str	ucture of Neuron:		
Midfield Midfield	eei	Discribing Cyton	12684AHNABET	1
		Maning of ———————————————————————————————————	MMMMLISSICIO	W1
Mid Re	e i t	Monators	1088 pai Mega	
		SECTION - C	- INNER STORY	3x5=15
III. An	ISW	er any Three questions	While .	Mag
		PART - A		
28	Diff	Gerence between Myopia and Hypo	ermetronia:	
		Myopia	Hypermetropia	
		Myopia, also known as short	Hypermeteropia, also known as	
	1	sightedness, occurs due to the	long sightedness, occurs due to the	NAMIN
		lengthening of eye ball.	shortening of eye ball.	
		With this defect, nearby objects can	distant objects can be seen clearly	
11:14	2	be seen clearly but distant objects	but nearby objects cannot be seen	1
HBH.		cannot be seen clearly.	clearly.	-
		The focal length of eye lens is	The focal length of eye lens is	
	3	reduced or the distance between	increased or the distance between	MAJAN
		eye lens and retina increases.	eye lens and retina decreases.	1
	h- 1-	Due to this, the image of distant	Due to this, the image of nearby	
Mido	4	objects are formed before the	objects are formed behind the	1
ABU.		retina	retina	1
		This defect can be corrected using a	This defect can be corrected using a	
	5	concave lens . The focal length of	convex lens . The focal length of the	1
		the concave lens to be used	convex lens to be used is computed	
29	-	ient Features of Modern atomic T	1 07 7	
Mido	*	An atom is no longer indivisible (aft	er the discovery of the electron,	
Sec.	.	proton, and neutron).	different atomic mass	
	4	Atoms of the same element may have of discovery of isotopes 17Cl ³⁵ , 17Cl ³⁷).	interent atomic mass.	
	*	Atoms of different elements may have	same atomic masses	
		(discovery of Isobars $_{18}$ Ar 40 , $_{20}$ Ca 40).		
- 1	4	Atoms of one element can be transmut	ted into atoms of other elements. In	
		other words, atom is no longer indestr transmutation).	- AMAGAHAN	5
	*	Atoms may not always combine in a sin (E.g. Glucose $C_6H_{12}O_6$ C:H:O = 6:12:6 or = 12:22:11).		
	*	Atom is the smallest particle that take	tes part in a chemical reaction.	
Mide		The mass of an atom can be converted		
2.		- 944220	1845°	

30	a) Ionic bond	1
	b) electronegativity	1
a de la	c) Along the period, from left to right in the periodic table, the electronegativity increases because of the increase in the nuclear charge which in turn attracts the electrons more strongly. On moving down a group, the electronegativity of the elements decreases because of the increased number of energy levels.	3
31	Stages of Cellular Respiration:	
li dia 1	a. Glycolysis (Glucose splitting):	
SHIP!	 It is the breakdown of one molecule of glucose (6 carbon) into two molecules of pyruvic acid (3 carbon). Glycolysis takes place in cytoplasm of the cell. It is the first step of both carebia and approbia respiration. 	
	It is the first step of both aerobic and anerobic respiration.	
	b. Krebs Cycle:	
1: :- :	 This cycle occurs in mitochondria matrix. At the end of glycolysis, 2 molecules of pyruvic acid enter into mitochondria. 	
394011.	The oxidation of pyruvic acid into CO ₂ and water takes place through this	5
	cycle. It is also called Tricarboxylic Acid Cycle (TCA).	. 0
	c. Electron Transport Chain:	MANNAN.
	This is accomplished through a system of electron carrier complex called electron transport chain (ETC) located on the inner membrane of the mitochondria.	1414
lider		
Balley.	◆NADH ₂ and FADH ₂ molecules formed during glycolysis and Krebs cycle are oxidised to NAD+ and FAD+ to release the energy via electrons.	
	The electrons, as they move through the system, release energy which is	Palan
	trapped by ADP to synthesize ATP.	MANGAL
	This is called oxidative phosphorylation . In this process, O ₂ the ultimate	
	acceptor of electrons gets reduced to water.	
lidar	$C_6H_{12}O_6+6O_2\rightarrow 6CO_2+6H_2O+ATP$	
Depart .		
32	Functions of blood:	11.12
	❖ Transport of respiratory gases (Oxygen and CO₂).	MyNyda.
	 Transport of digested food materials to the different body cells. 	
	 Transport of hormones. Transport of nitrogenous excretory products like ammonia, urea and uric 	5
7: -:	acid.	
	 It is involved in protection of the body and defense against diseases. 	
3.0	Lt acts as buffer and also helps in regulation of pH and body temperature.	. D
	It maintains proper water balance in the body.	· MANNY.

SHRI KRISHNA ACADEMY

∠ CREATIVE QUESTIONS ,MATERIALS(GUIDE), FULL TEST QUESTION PAPERS, ONE
MARK TEST QUESTION PAPER for X, XI, XII AVAILABLE in ALL SUBJECTS.

→ For MORE DETAILS - 99655 31727, 94432 31727